

Work Order ID 140950

140950

Page 1

January 26, 2016 11:15:01 AM

Ship Mar 4.

Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: AS350 Cable Cutter System
 Start Date: 1/26/2016 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 3/4/2016 Req'd Qty: 1.00 *1* Customer:
 Reference:

Approvals: Process Plan: SUA Date: 20160126 Poling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
 Run Start *NR1*
 Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
646.4000	<u>B</u> <u>C</u> <u>Q</u> <u>M</u>

100	Document Control	0.00
100	DOCUMENT CONTROL	
DC	Memo	0.00
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001	

DAS
27
9-89

MAR 14 2016

110	Pick Kit	0.00
110		
Packaging	Memo	0.00
Packaging		

DAS
6
9-89

DAS
28
9-89

FEB 09 2016

120	QC4- 100% Inspect kits for completeness	0.00
120		
QC	Memo	0.00
Quality Control		

DAS
27
9-89

MAR 14 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Work Order ID 140950

140950

Page 2

January 26, 2016 11:15:01 AM

Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: AS350 Cable Cutter System
Start Date: 1/26/2016 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 3/4/2016 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001 Location: _____								
		fg 101							
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

BAS
6.1
9.53
MAR 14 2016
MUS
MAR 15 2016
MUS
MAR 15 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : ☐							

Picklist Print

January 26, 2016 11:15:05 AM

Page 1

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM IPP
REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3301 *646.3301* Upper Cutter Assy		Manufactured	No			110	Each	4.0000	1	140848			DAS 28 6 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				cck018				4					
				136497				2					
				140115				2					
646.3001 *646.3001* Lower Cutter Assy		Manufactured	No			110	Each	0.0000	1	140853			DAS 28 6 9-89
646.2910 *646.2910* Deflector		Manufactured	No			110	Each	2.0000	1	140085			DAS 28 6 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				CCK050				2					
				136136				2					
646.3810 *646.3810* Bracket		Manufactured	No			110	Each	0.0000	2	140151			DAS 28 3 9-89
646.3510 *646.3510* Strut		Manufactured	No			110	Each	0.0000	1	140061			DAS 28 6 9-89
646.3511 *646.3511* Strut		Manufactured	No			110	Each	0.0000	1	140125			DAS 28 6 9-89

Picklist Print

January 26, 2016 11:15:05 AM

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

647.0112 Manufactured No

110 Each 55.0000 2 2

6470112

Strut Bracket

**

DAS
6 DAS
9-89 28
9-89

Location

Loc Qty

Loc Code

CCK107

55

M130388

55

647.7703 Manufactured No

110 Each 8.0000 2 2

6477703

Strut Assembly

**

DAS
6 DAS
9-89 28
9-89

Location

Loc Qty

Loc Code

CCK114

8

139295

8

NAS1149F0332P Purchased No

110 Each 2,571.000 138

NAS1149F0332P

Washer

**

DAS DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

GA

396

m133709

396

ST260a

1500

m134055

1500

ST262

675

m133709

4

m133938

671

DAS
27
9-89

DAS
6
9-89

FEB 2 9 2016

DAS
28
9-89

Picklist Print

January 26, 2016 11:15:05 AM

Page 3

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

110

Each

2,723.000

61

61

MS21042L3

Nut

DAS DAS

6 28

9-89 9-89

FEB 29 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK007

2000

m134039

2000

FP001

163

m133790

163

GA

195

m133790

195

ST304

365

m133790

365

646.3110

Manufactured

No

110

Each

2.0000

1

646.3110

Channel

**

DAS

DAS

6 28

9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck020

2

136492

2

646.3710

Manufactured

No

110

Each

9.0000

1

646.3710

Doubler

**

DAS DAS

6 28

9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK002

9

127550

9

646.3210

Manufactured

No

110

Each

4.0000

1

646.3210

Support

**

DAS

6 28

9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck020

4

136217

4

MAR 08 2016

January 26, 2016 11:15:05 AM

Shop Packet Print

Page 3

Picklist Print

January 26, 2016 11:15:05 AM

Page 4

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

646.3713

Manufactured No

110 Each

12.0000

1

646 3713

Gusset

BAS
27
9-89

Location

Loc Qty

Loc Code

cck105

12

138216

12

MS24694-S51

Purchased No

110 Each

231.0000

5

MS24694-S51

Screw

BAS
27
9-89

Location

Loc Qty

Loc Code

ST284

231

m130928

31

m133990

200

AN3-13A

Purchased No

110 Each

36.0000

1

AN3-13A

Bolt

BAS
27
9-89

Location

Loc Qty

Loc Code

CA

3

m129682

3

GA

20

m127070

20

ST349

13

m131305

13

DAS

6

9-89

FEB 9 2016

DAS

28

9-89

DAS

6

9-89

DAS

28

9-89

DAS

6

9-89

DAS

28

9-89

FEB 29 2016

Picklist Print

January 26, 2016 11:15:05 AM

Page 5

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-4A	Purchased	No	110	Each	332.0000	10	10	DAS 6 9-89	DAS 28 9-89
AN3-4A									
Bolt									
DAS 27 9-89									
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			over003	250					
			m133990	250		10			
			ST350	82					
			m129682	10					
			m133694	72					
CR3213-5-3	Purchased	No	110	Each	116.0000	14	14	DAS 6 9-89	DAS 28 9-89
CR3213-5-3									
Cherry Rivet									
DAS 27 9-89									
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			ST319	116					
			m130388	16					
			m132763	100					
MS20470AD5-5.5	Purchased	No	110	Each	1,070.000	8	8	DAS 6 9-89	DAS 28 9-89
MS20470AD5-5 5									
Rivet									
DAS 27 9-89									
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			ST309	1070					
			123425	79		8			
			m134063	991					
646.3711	Manufactured	No	110	Each	20.0000	1	1	DAS 6 9-89	DAS 28 9-89
646 3711									
Clip									
DAS 27 9-89									
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			cck105	20					
			120626	20					

FEB 29 2016

FEB 27 2016

Picklist Print

January 26, 2016 11:15:06 AM

Page 8

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

646.3813 Manufactured No

110 Each 5.0000

1

646 3813

Strut Bracket

**

040119

DAS 6 28
9-89 9-89

BAS
27
9-89

Location

Loc Qty

Loc Code

CCK106

5

127453

1

138267

4

MS20470AD5-7

Purchased No

110 Each 506.0000

3

3

MS20470AD5-7

Rivet

**

DAS 6 28
9-89 9-89

BAS
27
9-89

Location

Loc Qty

Loc Code

ST309

506

123425

506

MS21047-3

Purchased No

110 Each 225.0000

18

18

MS21047-3

Nut Plate

**

DAS 6 28
9-89 9-89

BAS
27
9-89

Location

Loc Qty

Loc Code

ST301

225

m133790

25

m133938

100

m134055

100

CCR264SS3-02

Purchased No

110 Each 352.0000

36

36

CCR264SS3-02

Rivet, Cherry

**

DAS 6 28
9-89 9-89
FEB 29 2016

BAS
27
9-89

Location

Loc Qty

Loc Code

ST321

352

M133790

152

M134023

200

January 26, 2016 11:15:06 AM

Shop Packet Print

Page 8

Picklist Print

January 26, 2016 11:15:06 AM

Page 9

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-5A
AN3-5A
Bolt

Purchased No

110 Each 222.0000 2 2

**

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
FP001	24	
m133686	24	
ST350	198	
m133686	78	
m134055	120	

FEB 29 2016

646.3715
6463715
Strut Doublet

Manufactured No

110 Each 17.0000 2 2

**

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
cck105	17	
139892	17	

MS27039-1-12
MS27039-1-12
Screw

Purchased No

110 Each 185.0000 6 6

**

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
over006	100	
m133988	100	
ST280	85	
m133483	85	

FEB 29 2016

646.3716
6463716
Gauge Bracket

Manufactured No

110 Each 6.0000 1 1

**

DAS
6
9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
cck105	6	
136410	6	

DAS
28
9-89

Picklist Print

January 26, 2016 11:15:06 AM

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

MS20426AD5-7

Purchased

No

110

Each

1,057.000

2

2

MS20426AD5-7

RIVET

DAS
27
9-89

Location

Loc Qty

Loc Code

ST311

1057

M132767

14

M133922

1043

DAS
6
9-89

DAS
28
9-89

MS24694-S54

Purchased

No

110

Each

156.0000

2

2

MS24694-S54

SCREW

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

156

m133134

56

m134063

100

DAS
6
9-89

DAS
28
9-89

MS27039-1-21

Purchased

No

110

Each

371.0000

4

4

MS27039-1-21

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

over006

241

m127904

241

ST280

130

m127904

130

DAS
6
9-89

DAS
28
9-89

MS27039-1-20

Purchased

No

110

Each

170.0000

2

2

MS27039-1-20

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST280

170

124326

170

DAS
6
9-89

DAS
28
9-89

FEB 29 2016

Picklist Print

January 26, 2016 11:15:06 AM

Page 11

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

110

Each

333.0000

22

22

MS27039-1-19

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

over006

250

m133932

100

m134055

150

ST280

83

m133938

83

646.3717

Manufactured

No

110

Each

1.0000

0

1

646 3717

Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

1

120633

1

646.3718

Manufactured

No

110

Each

11.0000

2

2

646 3718

Custom Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

11

136223

11

646.3719

Manufactured

No

110

Each

17.0000

2

2

646 3719

Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

17

139893

17

DAS
6
9-89

FEB 27 2016

DAS
28
9-89

Picklist Print

January 26, 2016 11:15:06 AM

Page 12

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

110

Each

146.0000

2

2

MS27039-1-10

SCREW

**

134166

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST280

55

m132677

55

DAS
27
9-89

AN3-11A

Purchased

No

110

Each

173.0000

10

10

AN3-11A

Bolt

**

Location

Loc Qty

Loc Code

over003

100

m133992

100

ST349

73

m133561

73

DAS
27
9-89

600.0990

Purchased

No

110

Each

23.0000

1

1

6000990

Magnabond 6398 Part A

**

Location

Loc Qty

Loc Code

CA2

12

M133800

12

PKG

11

M133938

11

DAS
6
9-89

DAS
28
9-89

15/07/2016

FEB 29 2016

DAS
28
9-89

Picklist Print

January 26, 2016 11:15:06 AM

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

600.0991

Purchased

No

110

Each

23.0000

0

1

6000991

MAGNOBOND 6398 PART B

DAS

6

9-89

28

9-89

Location

Loc Qty

Loc Code

CA2

12

m133800

12

PKG

11

m133938

11

600.1012

Purchased

No

110

Each

23.0000

1

1

6001012

Sealant PR1425B2 (#654 sem)

**

Location

Loc Qty

Loc Code

cck017

22

m133800

6

m133938

8

m133992

8

cck018

1

m131364

1

10/30/2015

DAS

27

9-89

600.0129

Purchased

No

110

f

493.0000

8

8

6000129

VHB TAPE 75935A651

**

Location

Loc Qty

Loc Code

CCK095

493

m127920

293

m131311

200

DAS

27

9-89

600.1013

Purchased

No

110

Each

845.0000

5

5

6001013

021200-3M TAPE PRIMER 94 PRIMER 24216

**

Location

Loc Qty

Loc Code

CCK095

845

m131145

845

6/15/2016

DAS

January 26, 2016 11:15:06 AM

Shop Packet Print

Picklist Print

January 26, 2016 11:15:06 AM

Page 14

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

646.3910	Manufactured	No	110	Each	28.0000	**	4	DAS 6 9-89	DAS 28 9-89
646 3910									
Shim									
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			CCK106	28					
			136478	28					
646.3911	Manufactured	No	110	Each	60.0000	**	1	DAS 6 9-89	DAS 28 9-89
646 3911									
Shim									
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			cck104	17					
			126229	17					
			CCK106	43					
			<u>126059</u>	43					
646.3912	Manufactured	No	110	Each	12.0000	**	4	DAS 6 9-89	DAS 28 9-89
646 3912									
Shim									
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			CCK106	12					
			123143	2					
			124501	10					
646.3913	Manufactured	No	110	Each	99.0000	**	1	DAS 6 9-89	DAS 28 9-89
646 3913									
Shim									
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			cck023aq	81					
			126060	81					
			CCK106	18					
			<u>124108</u>	18					

140238

FEB 27 2016

Picklist Print

January 26, 2016 11:15:06 AM

Page 15

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-12A

Purchased

No

110

Each

85.0000

2

2

AN3-12A

Bolt

**

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

GA

2

m129682

2

ST349

83

m133064

16

m133234

67

DAS 27
9-89

MS27039-1-16

Purchased

No

110

Each

294.0000

24

24

MS27039-1-16

Screw

**

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

ST280

294

m131317

8

mm134023

286

Smf

650.9201

Manufactured

No

110

Each

11.0000

2

2

650 9201

Eyelet Bracket Assembly

**

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

cck127

11

136606

11

Smf

AN44-5A

Purchased

No

110

Each

24.0000

2

2

AN44-5A

Eyebolt

**

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

ST339

24

m133790

12

m133990

12

Smf

FEB 09 2016

Picklist Print

January 26, 2016 11:15:07 AM

Page 16

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

AN665-34R

Purchased

No

110

Each

46.0000

2

2

AN665-34R

Clevis

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST330

46

M133523

26

M134029

10

st330

10

AN4C7A

Purchased

No

110

Each

104.0000

2

2

AN4C7A

BOLT

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

OVER002

20

m133523

20

ST340

14

m133363

14

ST345

70

m133790

20

m133990

50

NAS1149F0432P

Purchased

No

110

Each

1,588.000

4

4

NAS1149F0432P

WASHER

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST260a

1000

M133990

1000

ST262

463

M133938

463

st268

125

M132677

125

DAS
27
9-89

FEB 09 2016

Picklist Print

January 26, 2016 11:15:07 AM

Page 17

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

110

Each

3,610.000

2

MS21042L4

Locknut

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

41

m133363

41

GA

26

m127813

26

ST007

1500

m134055

1500

ST303

1946

m133769

1946

ST305

97

m130922

97

DAS
27
9-89

DAS
6
9-89

DAS
28
9-89

AN316C4R

Purchased

No

110

Each

77.0000

2

AN316C4R

NUT

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST331

77

m133234

43

m133523

34

DAS
27
9-89

MS21042-3

MS21042L3

Purchased

No

110

Each

18.0000

2

MS21042-3

Nut / use MS21042L3

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

18

M129682

18

DAS
27
9-89

FEB 09 2016

Picklist Print

January 26, 2016 11:15:07 AM

Page 18

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-13

Purchased

No

110

Each

316.0000

2

2

MS27039-08-13

Screw

**

DAS

6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

ST278

316

124326

316

MS21042-08

MS21042L08

Purchased

No

110

Each

33.0000

2

2

MS21042-08

USE MS21042L08

**

DAS

6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

NAS1149FN832P

Purchased

No

110

Each

3,803.000

4

4

NAS1149FN832P

Washer

**

DAS

6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

GA

2231

M133316

16

M133769

2215

ST262

1572

M133709

1572

MS24693-C278

Purchased

No

110

Each

70.0000

5

5

MS24693-C278

Screw

**

DAS

6

9-89

FEB 09 2010

DAS

28

9-89

Location

Loc Qty

Loc Code

ST287

70

m133998

70

BAS

27

9-89

January 26, 2016 11:15:07 AM

Shop Packet Print

Page 18

Picklist Print

January 26, 2016 11:15:07 AM

Work Order ID: 140950

140950

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/4/2016

Start Qty: 1.00

Required Qty: 1.00

646.9410

Manufactured No

110

Each

0.0000

1

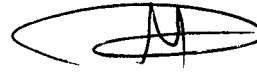
1

646 9410

**

Shim

Ship without Shim.

 16-3-14

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 INSTALL F/N 14 WITH F/N 52 & 53.
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASSTER-CARR P/N 75935A651.
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.
- 5 REUSE FASTENERS FROM F/N 1.
- 6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.
- 8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.
- 9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

	5		5		5	78	601.3875	SCREW	HENW2274	
	1		1		1	77	646.9410	SHIM		
			4		4	76	601.2764	WASHER	NAS1149H832P	
			2		2	75	601.2973	LOCKNUT	MS21042QB	
			2		2	74	601.2988	SCREW	MS27039-0813	
			2		2	73	601.2943	LOCKNUT	MS21042-3	
			2		2	72	601.3128	NUT	AN316C4R	
			2		2	71	601.3209	LOCKNUT	MS21042L4	
			4		4	70	601.2638	WASHER	NAS1149F0432P	
			2		2	69	601.2669	BOLT	AN4C7A	
			2		2	68	601.3119	CLEVIS	AN665-34R	
			2		2	67	601.3121	EYE BOLT	AN44-5A	
			2		2	66	650.9201	EYE BRACKET ASSY		
	REF	REF		REF	65	647.5701	GPS MOUNT KIT			
				2	64	601.3151	WASHER	NAS1149F0363P		
				2		63	601.2911	SCREW	MS24694553	
		24		24	62	601.2637	SCREW	MS27039-1-16		
	2	2		2	61	601.2763	BOLT	AN3-12A		
		1		1	60	646.3913	SHIM			
		4		4	59	646.3912	SHIM			
		1		1	58	646.3911	SHIM			
		4		4	57	646.3910	SHIM			
		5		5	56	600.1013	PRIMER			
		8 FT		8 FT	55	600.0129	VHB TAPE			
		1	1	1	54	600.1012	SEALANT	PR-1425 CLASS B		
			1	1	53	600.0991	MAGNOBOND 639B PART B			
			1	1	52	600.0990	MAGNOBOND 639B PART A			
	6	10		10	51	601.2826	BOLT	AN3-11A		
				2	50	646.3814	WIPER BRACKET			
				2	49	601.2910	SCREW	MS27039-1-18		
		2		2	48	601.1365	SCREW	MS27039-1-10		
		2		2	47	646.3719	DOUBLER			
			2	2	46	646.3718	CUSTOM WASHER			
		1		1	45	646.3717	DOUBLER			
		22	2	22	44	601.1948	SCREW	MS27039-1-19		
		2		2	43	601.1952	SCREW	MS27039-1-20		
			4	4	42	601.1956	SCREW	MS27039-1-21		
.4006	.4005	.4004	.4003	.4002	.4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

REV	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECH 02/19/03 S1, 02/19/03 S1 & 02/16/03	02/19/03	P. BRAVO
B	INCORPORATED ECH 02/16/03 S1, 02/16/03 S1 & 02/16/03	02/16/03	P. BRAVO
C	INCORPORATED ECH 02/16/03 S1, 02/16/03 S1 & 02/16/03	02/16/03	P. BRAVO

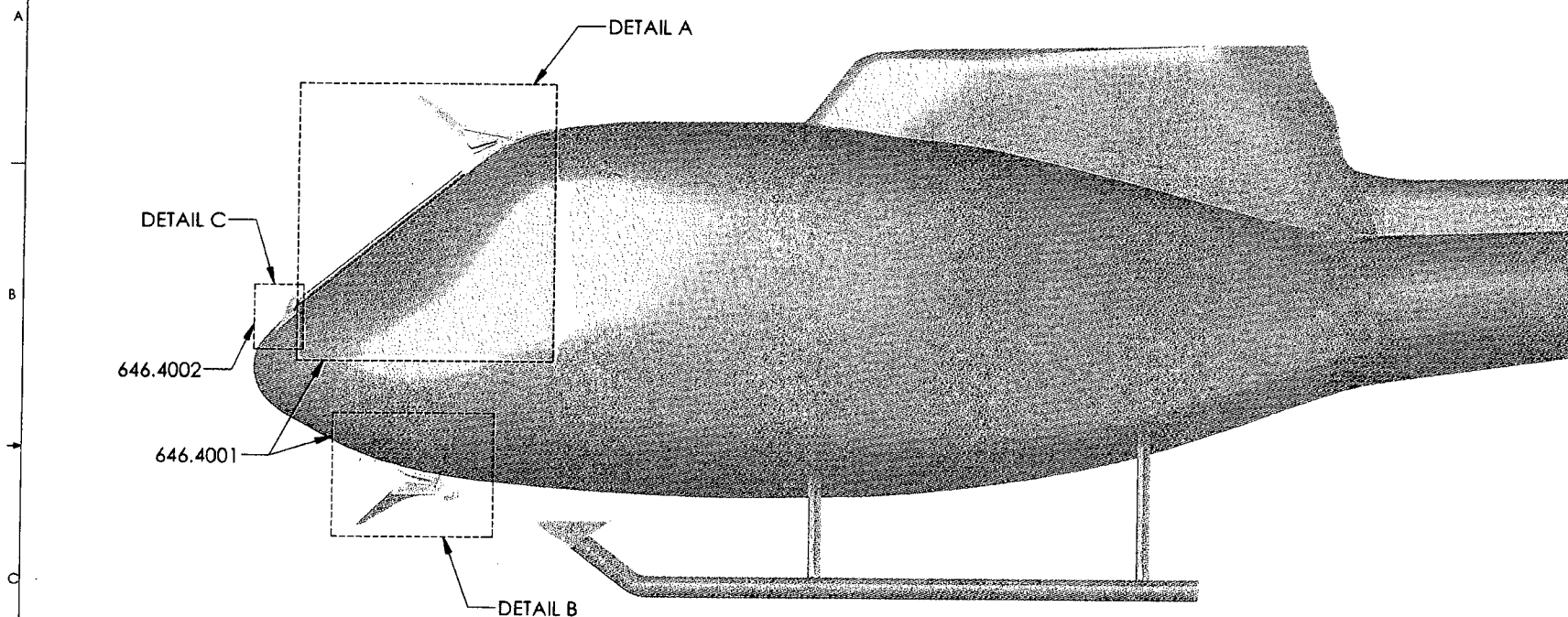
			2		2	41	601.2829	SCREW	MS24694554
			2		2	40	601.2831	RIVET	MS20426ADS-7
			1		1	39	646.3716	GAUGE BRACKET	
			6		6	38	601.1953	SCREW	MS27039-1-12
		2			2	37	646.3715	STRUT DOUBLER	
	2		2		2	36	601.2824	BOLT	AN3-5A
12	36				36	35	601.2277	RIVET	CCR04453-340
6	18				18	34	600.0795	NUTPLATE	MS21047-3
3	3				3	33	601.2565	RIVET	MS20470ADS-7
1	1				1	32	646.3813	STRUT BRACKET	
4	4				4	31	601.2822	BOLT	AN3-3A
2	2				2	30	646.3812	GUSSET BRACKET	
8	8				8	29	601.2564	RIVET	MS20470ADS-6
1	1				1	28	646.3714	GUSSET	
	1	1			1	27	646.3610	FILLER	
	3		3		3	26	601.2830	SCREW	MS24694555
	2		2		2	25	601.2825	BOLT	AN3-6A
	1		1		1	24	646.3811	RADIUS BLOCK	
	1		1		1	23	646.3712	CLIP	
	1		1		1	22	646.3711	CLIP	
8		8			8	21	601.2832	RIVET	MS20470ADS-5
14		14			14	20	601.2020	RIVET	CR3213-5-3
4	6	4	6		10	19	601.2823	BOLT	AN3-4A
	1		1		1	18	601.2827	BOLT	AN3-13A
	5		5		5	17	601.2912	SCREW	MS24694551
1		1			1	16	646.3713	GUSSET	
1		1			1	15	646.3210	SUPPORT	
		1			1	14	646.3710	DOUBLER	
	1		1		1	13	646.3110	CHANNEL	
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS21042L3
16	32	18	120	16	144	11	601.1607	WASHER	NAS1149F032P
						10	646.3410	LH WIPER DEFLECTOR	
						9	646.3411	RH WIPER DEFLECTOR	
			2		2	8	647.7703	STRUT ASSY	
			2		2	7	647.0112	STRUT BRACKET	
	1		1		1	6	646.3511	STRUT	
	1		1		1	5	646.3510	STRUT	
2		2			2	4	646.3810	BRACKET	
			1		1	3	646.2910	DEFLECTOR	
	1		1		1	2	646.3001	LOWER CUTTER ASSY	
			1		1	1	646.3301	UPPER CUTTER ASSY	
X							646.4006	LOWER CUTTER FIXED PROVISIONS	
	X						646.4005	LOWER CUTTER REMOVABLE PROVISIONS	
		X					646.4004	FIXED PROVISIONS KIT	
			X				646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS	
				X			646.4002	AS350 WIPER DEFLECTOR KIT	
					X		646.4001	AS350 CABLE CUTTERS KIT	
.4006	.4005	.4004	.4003	.4002	.4001	FIND #	PART #	DESCRIPTION	MATL SPEC.

QTY	DESCRIPTION	MATL	SPEC.
NEXT ASSY (S)			
ORIGINAL DATE	08-27-06		
DRAWN BY	CHICKER		
INCHES	P. BRAVO		
DRAWING APPROVAL			
08/27/06			
CONTRACTING NO.			
UNLESS OTHERWISE SPECIFIED			
DIMENSIONS ARE IN INCHES			
3 PLACE DECIMALS .0010			
3 PLACE DECIMALS .0005			
ANGLE 1/2"			
SCALE	NONE		
SHEET	1 OF 5		

DART 3030 ENTERPRISE CT., SUITE A
VISTA, CA. 92081
(760)-724-5300

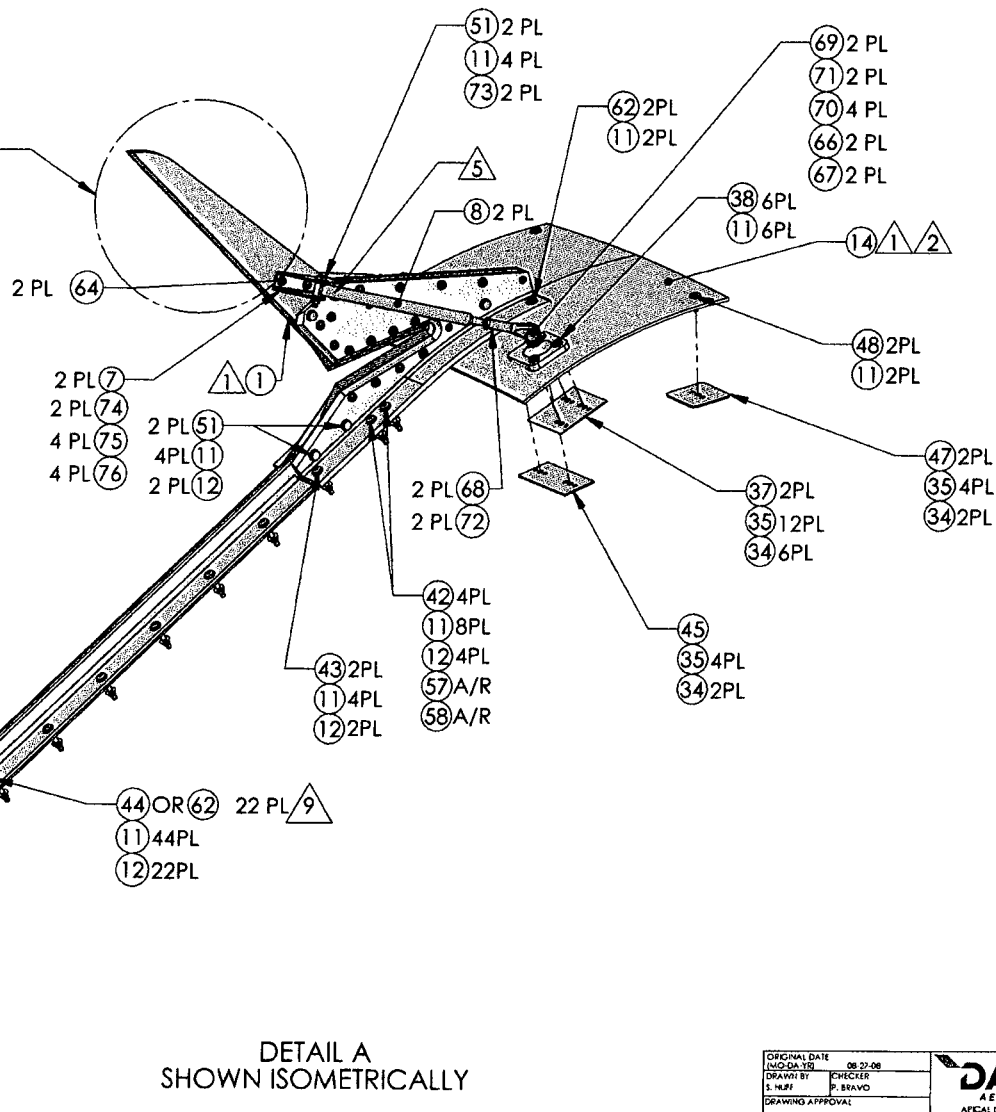
AS350 CABLE CUTTERS KIT
REV. C
SCALE NONE
SHEET 1 OF 5

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



ORIGINAL DATE (M/D-DA-YR) 08-27-08		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HUFF		CHECKED P. BRAVO	
DRAWING APPROVAL P. BRAVO 08-27-08		APICAL INDUSTRIES INC. DBA DART AEROSPACE	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±0.10 3 PLACE DECIMALS ±0.005 ANGLES ± 0°			
SHEET B	CAGE CODE 07M16	DWG. NO. 646.4000	REV. C
SCALE NONE			SHEET 2 OF 5

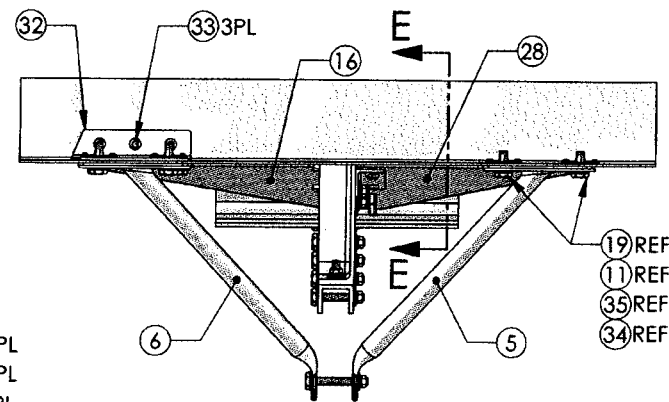
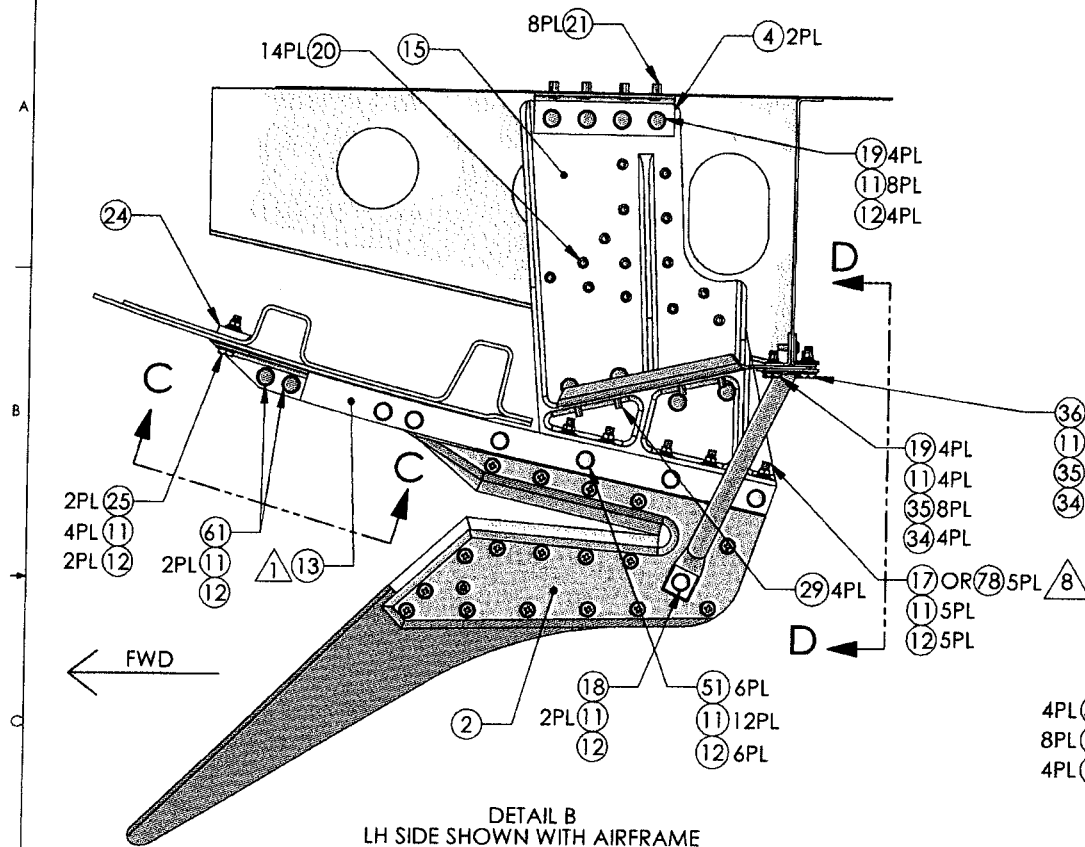
DETAIL D.



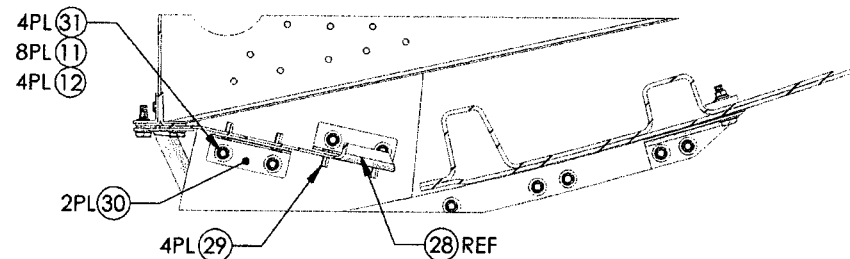
DETAIL A
SHOWN ISOMETRICALLY

ORIGINAL DATE (ISO-DA-Y2) 06-27-08 DRAWN BY: CHECKER S. HART P. BRAVO DRAWING APPROVAL: P. BRAVO 06-27-08 CONTRACT No.	 DART AEROSPACE AERIAL INDUSTRIES INC. 3030 ENTERPRISE CT SUITE A VISTA, CA 92081 (760)-724-5300
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°	
AS350 CABLE CUTTERS KIT	
SIZE CAGE CODE DWG. NO. 3/2E 07M26 646,400	REV C SCALE NONE SHEET 3 OF 5

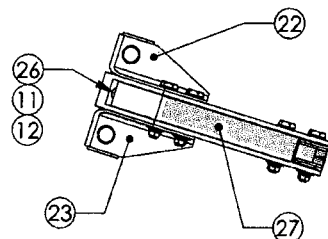
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES
 DSA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
 WRITTEN PERMISSION OF APICAL INDUSTRIES DSA DART AEROSPACE IS PROHIBITED.



SECTION D-D
 CUTTER HIDDEN FOR CLARITY



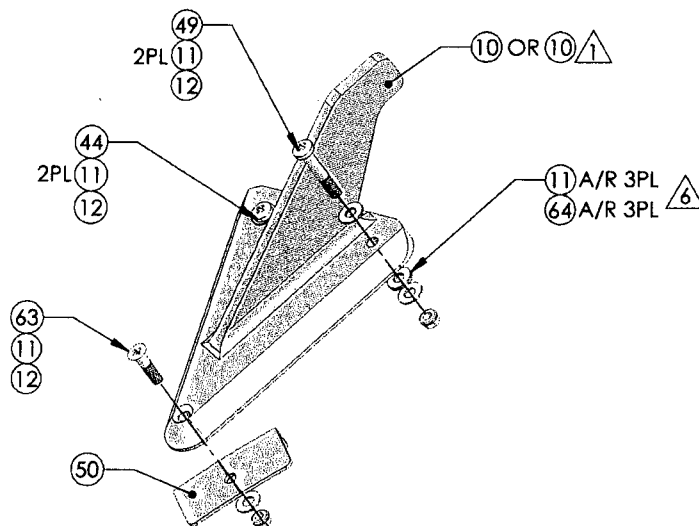
SECTION E-E



SECTION C-C

ORIGINAL DATE (M/D-YR) 08-27-08		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA, 92081 (760)-724-5300	
DRAWN BY S. HUFF	CHECKER P. BRAVO	AS350 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO	08-27-08	APICAL INDUSTRIES INC. 0560 DART AEROSPACE	
CONTRACT NO.		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ± .5°	
SITE B	CAGE CODE 07M26	DWG. NO. 646,4000	REV. C
SCALE NONE		SHEET 4 OF 5	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES
DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE (MO, DA, YR) 06-27-08		 3030 ENTERPRISE CT. SUITE A VISTA, CA. 92081 APICAL INDUSTRIES INC. (760) 724-5300 DBA DART AEROSPACE			
DRAWN BY S. HUFF	CHECKED P. BRAVO				
DRAWING APPROVAL P. BRAVO 06-27-08					
CONTRACT NO.					
AS350 CABLE CUTTERS KIT					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMALS ± 0.10 2 PLACE DECIMALS ± 0.05 ANGLES ± 1°		SIZE B	CAGE CODE 07M26	DWG. NO. 646.4000	REV. C
		SCALE NONE		SHEET 5 OF 5	

NOTES:

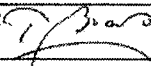
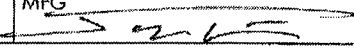
- 8

0.5304

5

[illegible]

 DART AEROSPACE AIRCRAFT MODIFICATIONS INC. 4000 DART PARKWAY		3030 ENTERPRISE CL. SUITE A VISTA, CA 92081 (760)-724-5300	
AS350 CABLE CUTTERS KIT			
QTY 1	CATCH CODES 07M26	DARTS NO 646.4000	REV C
SCALE NONE		SHEET 1 OF 5	

 APICAL INDUSTRIES, INC. dba DART AEROSPACE	ENGINEERING CHANGE NOTICE NO. 05304				SHEET 1 OF 1	
	DWG NO. 646.4000		REV: C	PREPARED BY J. BECKER	DATE: 02/04/16	
	EFFECT ON DWG ☐ INC. ☒ UNINC.					
	DWG TITLE: AS350 CABLE CUTTERS KIT					
APPROVED BY: ENGR. 		MFG 	QC 	EFF. NEXT ORDER		
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: REVISED F/N 12.				ECR: N/A ACTION ITEM: 1. N/A
DRAFT ONLY						
<u>SHEET 1, BOM IS:</u>						
12	R	601.1624	8	16	LOCKNUT	MS21042L3
F/N	TC	PART NUMBER	4006	4005	DESCRIPTION	MATERIAL
			QTY			
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO